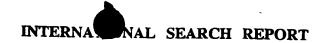
al Application No

PCT/US 99/18672 a. CLASSIFICATION OF SUBJECT MATTER IPC 7 D06N7/00 C08H C08K13/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 DOGN COSK Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X DATABASE WPI 1-3, Section Ch, Week 198510 11-13. Derwent Publications Ltd., London, GB; 19-21 Class A81, AN 1985-059878 X XP002127669 & JP 60 017174 A (JAPAN SYNTHETIC RUBBER CO LTD), 29 January 1985 (1985-01-29) abstract 25-27 X DE 32 15 890 A (BASSERMANN & CO) 6-9, 3 November 1983 (1983-11-03) 15-18 page 11, line 19 - line 26; claims; 25-27 examples X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 January 2000 25/01/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Pamies Olle, S

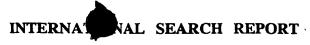
Fax: (+31-70) 340-3016





Intern. .onal Application No PCT/US 99/18672

C (Continu	etion) DOCUMENTS CONCIDENCE	PCT/US 99/18672
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	
	passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 199628 Derwent Publications Ltd., London, GB; Class A12, AN 1996-275882 **XP002127670 & RU 2 047 626 C (RESOURCES ECONOMY PROBLEMS INST),	1,2,11, 12
Α	10 November 1995 (1995-11-10) abstract	ļ
		4,5,14
X	DE 19 57 159 A (FEIT, LEO) 27 May 1971 (1971-05-27)	1,11
A	page 1, line 1 -page 2, line 5; claim 1; example 19	3,4,13, 14
A	DATABASE WPI Section Ch, Week 198722 Derwent Publications Ltd., London, GB; Class A18, AN 1987-153590 XP002127671 & JP 62 090376 A (JAPAN SYNTHETIC RUBBER CO LTD), 24 April 1987 (1987-04-24) abstract	1,11,19
A	WO 97 00995 A (MINNESOTA MINING & MFG) 9 January 1997 (1997-01-09) page 2, line 1 - line 19 page 9, line 3 -page 10, line 15	6,15,25
4	US 4 643 930 A (UCCI POMPELIO A) 17 February 1987 (1987-02-17) cited in the application column 3, paragraph 1; claims	1,11
A	US 4 619 853 A (BLYTH RANDOLPH C ET AL) 28 October 1986 (1986-10-28) cited in the application column 2, line 55 - line 66; claims	1,11



Information on patent family members

Inte a hal Application No PCT/US 99/18672

Patent document cited in search report	t	Publication date	Patent family member(s)	Publication date
JP 60017174	Α	29-01-1985	NONE	
DE 3215890	Α	03-11-1983	NONE	
RU 2047626	С	10-11-1995	NONE	
DE 1957159	Α	27-05-1971	NL 6917439 A	24-05-1971
JP 62090376	Α	24-04-1987	JP 1830847 C	15-03-1994
WO 9700995	Α	09-01-1997	US 5888290 A AU 704867 B AU 5964596 A CA 2225526 A EP 0837963 A JP 11509585 T	30-03-1999 06-05-1999 22-01-1997 09-01-1997 29-04-1998 24-08-1999
US 4643930	Α	17-02-1987	NONE	
US 4619853	Α	28-10-1986	NONE	

\TENT COOPERATION TRI Y

	From the INTERNATIONAL BUREAU				
PCT	То:				
NOTIFICATION OF ELECTION	Assistant Commissioner for Patents				
(PCT Rule 61.2)	United States Patent and Trademark Office Box PCT				
	Washington, D.C.20231 ETATS-UNIS D'AMERIQUE				
Date of mailing (day/month/year)					
06 April 2000 (06.04.00)	in its capacity as elected Office				
International application No.	Applicant's or agent's file reference				
PCT/US99/18672	44278				
International filing date (day/month/year)	Priority date (day/month/year)				
17 August 1999 (17.08.99)	17 August 1998 (17.08.98)				
Applicant					
TABOR, Rick, L. et al					
1. The designated Office is hereby notified of its election made: X in the demand filed with the International Preliminary Examining Authority on: 01 March 2000 (01.03.00) in a notice effecting later election filed with the International Bureau on:					
2. The election X was					

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

was not

Authorized officer

Antonia Muller

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

Rule 32.2(b).

AP



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 44278	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/US 99/18672	17/08/1999	17/08/1998				
Applicant		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
THE DOW CHEMICAL COMPANY	et al.					
This International Search Report has beer according to Article 18. A copy is being tra	n prepared by this International Searching Autonomitted to the International Bureau.	thority and is transmitted to the applicant				
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	s report.				
Basis of the report						
 With regard to the language, the information language in which it was filed, unlended. 	nternational search was carried out on the ba ess otherwise indicated under this item.	sis of the international application in the				
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of	the international application furnished to this				
 With regard to any nucleotide and was carried out on the basis of the 	d/or amino acid sequence disclosed in the in	nternational application, the international search				
	nal application in written form.					
filed together with the inter	rnational application in computer readable for	m.				
furnished subsequently to	furnished subsequently to this Authority in written form.					
furnished subsequently to	this Authority in computer readble form.					
the statement that the sub- international application as	sequently furnished written sequence listing of siled has been furnished.	loes not go beyond the disclosure in the				
the statement that the information furnished	rmation recorded in computer readable form i	s identical to the written sequence listing has been				
2. Certain claims were foun	nd unsearchable (See Box I).					
3. Unity of invention is lack	3. Unity of invention is lacking (see Box II).					
4. With regard to the title,						
the text is approved as sub	omitted by the applicant.					
the text has been establish	ned by this Authority to read as follows:					
		•				
5. With regard to the abstract,						
the text is approved as submitted by the applicant.						
the text has been establish within one month from the	ed, according to Rule 38.2(b), by this Authori date of mailing of this international search rep	ty as it appears in Box III. The applicant may, ort, submit comments to this Authority.				
6. The figure of the drawings to be publis						
as suggested by the applic	ant.	X None of the figures.				
because the applicant faile	d to suggest a figure.					
because this figure better o	characterizes the invention.					

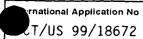
INTERNATIONAL SEARCH REPORT



T/US 99/18672

CLASSIFICATION OF SUBJECT MATTER PC 7 D06N7/00 C08k C08K13/02 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 D06N C08K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category 9 Relevant to claim No. χ DATABASE WPI 1-3, Section Ch, Week 198510 11 - 13. Derwent Publications Ltd., London, GB; 19-21 Class A81, AN 1985-059878 XP002127669 & JP 60 017174 A (JAPAN SYNTHETIC RUBBER CO LTD), 29 January 1985 (1985-01-29) Υ abstract 25 - 27Χ DE 32 15 890 A (BASSERMANN & CO) 6-9. 3 November 1983 (1983-11-03) 15 - 18Υ page 11, line 19 - line 26; claims; 25-27 examples Χ Further documents are listed in the continuation of box C. X Patent family members are listed in annex Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 18 January 2000 25/01/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Pamies Olle, S Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT



C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	1/US 99/18672
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 199628 Derwent Publications Ltd., London, GB; Class A12, AN 1996-275882 XP002127670 & RU 2 047 626 C (RESOURCES ECONOMY PROBLEMS INST),	1,2,11,
_	10 November 1995 (1995-11-10)	
Α	abstract ~~~	4,5,14
X	DE 19 57 159 A (FEIT, LEO)	1,11
A	27 May 1971 (1971-05-27) page 1, line 1 -page 2, line 5; claim 1; example 19	3,4,13, 14
A	DATABASE WPI Section Ch, Week 198722 Derwent Publications Ltd., London, GB; Class A18, AN 1987-153590 XP002127671 & JP 62 090376 A (JAPAN SYNTHETIC RUBBER CO LTD), 24 April 1987 (1987-04-24) abstract	1,11,19
A	WO 97 00995 A (MINNESOTA MINING & MFG) 9 January 1997 (1997-01-09) page 2, line 1 - line 19 page 9, line 3 -page 10, line 15	6,15,25
A	US 4 643 930 A (UCCI POMPELIO A) 17 February 1987 (1987-02-17) cited in the application column 3, paragraph 1; claims	1,11
A	US 4 619 853 A (BLYTH RANDOLPH C ET AL) 28 October 1986 (1986-10-28) cited in the application column 2, line 55 - line 66; claims	1,11

INTERNATIONAL SEARCH REPORT

ation on patent family members

rnational Application No T/US 99/18672

Patent document cited in search repo	rt	Publication date	Patent family member(s)	Publication date
JP 60017174	Α	29-01-1985	NONE	
DE 3215890	Α	03-11-1983	NONE	
RU 2047626	С	10-11-1995	NONE	
DE 1957159	Α	27-05-1971	NL 6917439 A	24-05-1971
JP 62090376	Α	24-04-1987	JP 1830847 C	15-03-1994
WO 9700995	Α	09-01-1997	US 5888290 A AU 704867 B AU 5964596 A CA 2225526 A EP 0837963 A JP 11509585 T	30-03-1999 06-05-1999 22-01-1997 09-01-1997 29-04-1998 24-08-1999
US 4643930	Α	17-02-1987	NONE	
US 4619853	Α	28-10-1986	NONE	

1991 762546 OCO

PATENT COOPERATION TREATY

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REC'D 1 3 DEC 2000

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or ac	ent's file reference	T		
Applicant's or agent's file reference		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US99/18672			17/08/1999		17/08/1998
Internationa D06N7/00		ent Classification (IPC) or na	tional classification and IF	PC	
Applicant					
THE DOV	V CI	HEMICAL COMPANY 6	et al.		
		ational preliminary exami smitted to the applicant a		prepared by this	International Preliminary Examining Authority
2. This R	EPC	ORT consists of a total of	7 sheets, including thi	s cover sheet.	
			,	,	
⊠ Tr	nis re	eport is also accompanied	by ANNEXES, i.e. sh	eets of the descr	iption, claims and/or drawings which have
De (Se	en a ee R	amended and are the bas Jule 70.16 and Section 60	is for this report and/oi 7 of the Administrative	r sheets containir Instructions und	ng rectifications made before this Authority er the PCT)
These	ann	exes consist of a total of	5 sheets.		
	-				
3. This re	nort	contains indications relat	ing to the following its		
). IIIIS 1 0	port	contains indications relat	ing to the following itel	ms:	
1	\boxtimes	Basis of the report			
11		Priority			
Ш		Non-establishment of op-	pinion with regard to no	ovelty, inventive s	step and industrial applicability
IV					• •
٧	×	Reasoned statement uncitations and explanation	der Article 35(2) with rens suporting such state	egard to novelty, ement	inventive step or industrial applicability;
VI		Certain documents cited	d		
VII	\boxtimes	Certain defects in the int	ternational application		
VIII	\boxtimes	Certain observations on	• •	cation	
ate of subm	nssio	n of the demand		Date of completion	on of this report
1/03/200	0			11.12.2000	
		address of the international		Authorized officer	ANGORS WINE

Semino, D

Telephone No. +49 89 2399 7324

European Patent Office D-80298 Munich

Fax: +49 89 2399 - 4465

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/18672

I. Basi	of the	report
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1.	res the	This report has been drawn on the basis of (substitute sheets which have been furnished to the receiving Office is response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).): Description, pages:								
	1-3	9	as originally filed							
	Cla	ims, No.:								
	1-2	4	as received on	10/11/2000	with letter of	08/11/2000				
2.	Wit lan	With regard to the language , all the elements marked above were available or furnished to this Authority in the anguage in which the international application was filed, unless otherwise indicated under this item.								
	The	These elements were available or furnished to this Authority in the following language: , which is:								
		the language of pu	blication of the internati	onal application (unde	er Rule 48.3(b)).	ch (under Rule 23.1(b)). ary examination (under Rule				
3.	With	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:								
		□ contained in the international application in written form.								
		☐ filed together with the international application in computer readable form.								
		☐ furnished subsequently to this Authority in written form.								
		☐ furnished subsequently to this Authority in computer readable form.								
		☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
		☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.								
4.	The	he amendments have resulted in the cancellation of:								
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							
5.			en established as if (son eyond the disclosure as		s had not been r	nade, since they have been				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US99/18672

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 1-24

No:

Claims

Inventive step (IS)

Yes:

Claims

No:

Claims 1-24

Industrial applicability (IA)

Yes:

Claims 1-24

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Pertinence of the cited prior art

- 1.1 Document D1 (JP-A-60017174, WPI Abstract) relates to an adhesive composition to be used to impart soil and spill resistance to carpets consisting of a polymer latex (e.g. ethylene-vinyl acetate latex), a filler (e.g. calcium carbonate) and a water repellent (e.g. a rosin-based sizing agent) mixed together.
- 1.2 Document D2 (DE-A-3215890) discloses (cf. abstract and claim 1) a method of treating mineral fillers with hydrophobic compounds including carboxylic acids (cf. claims 3 and 4) and salts (cf. claim 7). The filler can be used in different fields including the production of adhesives (cf. p. 12, l. 3), since it is characterised by improved superficial properties including higher water resistance (cf. p. 12, l. 5-8). In example 4 a composition containing a treated filler according to the current application (containing soya fatty acid and calcium carbonate, cf. example 2) and a styrene-butyl acrylate dispersion is disclosed (cf. p. 16, l. 4-21).
- 1.3 Document D3 (DE-A-1957159) discloses (cf. p. 1, first par. and claim 1) means for rendering a latex dispersion watertight, once it has been dried, through the addition of hydrophobic compounds (e.g. calcium stearate and triethanolaminstearate). The composition can be used for adhesives (cf. p. 2, I. 11) in different fields. In example 19 a composition is disclosed including the hydrophobic compounds according to the current application (cf. examples 1-18), a vinyl acetate latex and calcium carbonate.
- 1.4 Document D4 (US-A-4619853, cf. col. 2, l. 35-66) and D5 (US-A-4643930, cf. col. 2, l. 55 to col., l. 12) disclose adhesive compositions for carpet backings comprising a mixture of a latex (e.g. ethylene-vinyl acetate latex) and a filler (e.g. calcium carbonate), which further contains a fluorochemical in an amount sufficient to render the backing impervious.
- 1.5 Document D5 (RU-C-2047626, WPI Abstract) relates to a composition including a

polymeric latex, a fibrous organic filler and zinc stearate.

1.6 Document D6 (WO-A-9700995) discloses (cf. abstract and claim 1) fluorochemical treatment compositions to be used to impart durable water and oil repellency to a variety of substrates. Acid and salts of fluorochemical compounds can be blended in the composition (cf. p. 13, I. 29-20).

2. Conclusions

- 2.1 The composition of claim 1 differs from the composition disclosed in D1, which can be considered as the closest state of the art, for the fact that the aqueous dispersed polymeric material is a polyurethane dispersion. The use of a polyurethane dispersion in place of a latex as disclosed in D1 lies within the common knowledge of the man skilled in the art as explicitly stated in the application (cf. e.g. p. 2, I. 2-7). In other words the skilled man would know from D1 that the addition of an inorganic filler and a water repellant agent (e.g. a rosin-based sizing agent) to a polymeric dispersion suitable for preparing a carpet backing would confer to the carpet spill resistance properties and would choose a polyurethane dispersion as aqueous dispersed polymeric material as one of the known alternatives in the field without exercising an inventive step (Article 33(3) PCT).
- 2.2 Lack of inventive step (Article 33(3) PCT) of the composition of claim 1 can follow the same arguments as in paragraph 2.1 also starting from either D2 or D3 as the closest state of the art.
- 2.3 The kit of claim 9 and the method of claim 15 are not inventive (Article 33(3) PCT) for the same reasons as in paragraphs 2.1-2.2 mutatis mutandis.
- 2.4 Lack of inventive step (Article 33(3) PCT) of the composition of claim 5, the kit of claim 12 and the method of claim 20 follows the same arguments as in paragraph 2.1 starting from D2 as the closest state of the art.
- 2.5 Dependent claims 2-4, 6-8, 10-11, 13-14, 16-17, 21-22 do not contain any features which, in combination with the features of any claim to which they refer,

meet the requirements of the PCT in respect of inventive step, either because the additional features are already known from at least one of D1-D3 or because the choice of specific elements of the different classes of components is not accompanied by a surprising effect so as to justify the presence of an inventive step.

2.6 Claims 18 and 23 (and dependent claims therefrom) concern any carpet backing prepared according to the methods in claims 15 and 20 respectively. However, no carpet backing results from the methods in claim 15 and 20, which concern methods for preparing an aqueous polymeric composition. Moreover, even if the methods resulted in the preparation of a carpet backing. such a backing would merely correspond to the automatic protection as conferred in most states for instance by Art. 5quater of the Paris Convention for the Protection of Industrial Property, or by Art. 64(2) EPC to the product that directly results from a claimed method. Further, the products as currently claimed lack the specification of those features which actually could confer novelty and inventive step to them over the available, known products.

These claims are therefore unnecessary and should be cancelled.

Re Item VII Certain defects in the international application

- 0. The following items of information are merely for the sake of expediency in case of any further regional examination before the EPO.
- 1. The expression 'hereby incorporated by reference' (p. 2, l. 19-20; p. 3, l. 1; p. 12, l. 6; p. 13, l. 21; p. 14, l. 2, 3, 5, 7, 10, 12, 14, 17, 19; p. 15, l.1) is not in conformity with Rule 1(a)(ii) and (iii) (see also the PCT Guidelines, II-4.17). The expression should be cancelled, in so far the description should be sufficient per se.

Re Item VIII Certain observations on the international application

1. Claim 5 (respectively 12) contains all the feature of claim 1 (respectively 9) and is therefore not appropriately formulated as a claim dependent on the latter (Rule

6.4 PCT).

Moreover, the subject-matter of independent claims 1 and 9 is not clearly distinguished rendering the claims as a whole unclear (Article 6 PCT). Finally, the formulation of a single independent product claim out of claims 1, 5, 9 and 12 would render unnecessary the repetition of similar dependent claims, which makes the claims as a whole not concise (Article 6 PCT).

- 2. Component c. of the composition of claim 1 (and correspondent component of claims 5, 9, 12, 15, 20) is so broadly stated that it covers **any** acid with hydrophobic properties or **any** salt thereof, including e.g. acid and salts of fluorochemicals (see e.g. components disclosed in D6), which in the description are mentioned as leading to undesirable results (cf. p. 5, l. 5-11), resulting therefore in lack of clarity (Article 6 PCT).
- 3. Many of the example do not fall under the wording of the claims and should be therefore recognised as comparative examples. Further, the fact that coatings which do not fall under the wording of the claims (example 13-18, in which it is not apparent whether an inorganic filler is present) pass the British spill test and that coatings which fulfill the requirements of the invention (example 4, cf. composition of the precoat) do not pass the test makes it completely unclear where the invention lies (Articles 5 and 6 PCT) The applicants should state clearly which are the features essential to perform the invention and which is the technical effect provided by each of the them.
- 4. The vague and imprecise statement in the description on page 39 (cf. l. 1, 'spirit of the invention') implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guidelines, III-4.3a).

10

What is claimed is:

- 1. An aqueous dispersed polymeric composition for preparing a spill resistant carpet backing comprising:
 - a. an aqueous dispersed polymeric material being a polyurethane dispersion;
- b. an inorganic filler; and
 - a hydrophobic compound selected from the group consisting of a hydrophobic acid, a salt of a hydrophobic acid, and mixtures thereof.
- 2. The aqueous dispersed polymeric composition of Claim 1, wherein the inorganic filler is selected from the group consisting of calcium carbonate, calcium sulfate, kaolin, lignite fly ash, silica, talc, feldspar, mica, glass spheres, wollastonite, aluminum trihydrate, aluminum oxide, fiber glass, and mixtures thereof.
- 3. The aqueous dispersed polymeric composition of Claim 1, wherein the hydrophobic compound is selected from the group consisting of butyric acid, hexanoic acid, octanoic acid, decanoic acid, dodecanoic acid, lauric acid, myristic acid, palmitic acid, oleic acid, linoleic acid, stearic acid, linolenic acid, gum rosin, wood rosin, tall oil rosin, abietic acid, oxidized polyethylene containing carboxylic acid groups, ethylene-acrylic acid copolymers, ethylene-methacrylic acid copolymers, polyolefins grafted with unsaturated carboxylic acids, polyolefins grafted with anhydrides, methacrylic acid, maleic acid, fumaric acid, acrylic acid, and salts thereof.
- 4. The aqueous dispersed polymeric composition of Claim 1, wherein the aqueous dispersed polymeric material is a polyurethane dispersion, the inorganic filler is calcium carbonate, and the hydrophobic salt is zinc stearate.
 - 5. An aqueous dispersed polymeric composition for preparing a spill resistant carpet backing comprising:
- a. an aqueous dispersed polymeric material being a polyurethane dispersion; and

b.

6. The aqueous dispersed polymeric composition of Claim 5, wherein the inorganic filler is selected from the group consisting of calcium carbonate, calcium sulfate, kaolin, lignite fly ash, silica, talc, feldspar, mica, glass spheres, wollastonite, aluminum trihydrate, aluminum oxide, fiber glass, and mixtures thereof.

hydrophobic acid, and mixtures thereof.

- 7. The aqueous dispersed polymeric composition of Claim 5, wherein the hydrophobic compound is selected from the group consisting of butyric acid, hexanoic acid, octanoic acid, decanoic acid, dodecanoic acid, lauric acid, myristic acid, palmitic acid, oleic acid, linoleic acid, stearic acid, linolenic acid, gum rosin, wood rosin, tall oil rosin, abietic acid, oxidized polyethylene containing carboxylic acid groups, ethylene-acrylic acid copolymers, ethylene-methacrylic acid copolymers, polyolefins grafted with unsaturated carboxylic acids, polyolefins grafted with anhydrides, methacrylic acid, maleic acid, fumaric acid, acrylic acid, and salts thereof.
 - 8. The aqueous dispersed polymeric composition of Claim 5, wherein the aqueous dispersed polymeric material is a polyurethane dispersion, the treated inorganic filler is stearic acid-treated calcium carbonate.
 - 9. A kit for preparing a spill resistant carpet backing comprising:
 - a. an aqueous dispersed polymeric material being a polyurethane dispersion;
 - b. an inorganic filler; and
 - c. a hydrophobic compound selected from the group consisting of a hydrophobic acid, a salt of a hydrophobic acid, and mixtures thereof.
 - 10. The kit of Claim 9, wherein the inorganic filler is selected from the group consisting of calcium carbonate, calcium sulfate, kaolin, lignite fly ash, silica, talc, feldspar,

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- 11. The kit of Claim 9, wherein the hydrophobic compound is selected from the group consisting of butyric acid, hexanoic acid, octanoic acid, decanoic acid, dodecanoic acid, lauric acid, myristic acid, palmitic acid, oleic acid, linoleic acid, stearic acid, linolenic acid, gum rosin, wood rosin, tall oil rosin, abietic acid, oxidized polyethylene containing carboxylic acid groups, ethylene-acrylic acid copolymers, ethylene-methacrylic acid copolymers, polyolefins grafted with unsaturated carboxylic acids, polyolefins grafted with anhydrides, methacrylic acid, maleic acid, fumaric acid, acrylic acid, and salts thereof.
- 12. A kit for preparing a spill resistant carpet backing comprising:
 - a. an aqueous dispersed polymeric material being a polyurethane dispersion; and
 - b. a treated inorganic filler, having been treated with a hydrophobic compound selected from the group consisting of a hydrophobic acid, a salt of a hydrophobic acid, and mixtures thereof.
- 13. The kit of Claim 12, wherein the inorganic filler is selected from the group consisting of calcium carbonate, calcium sulfate, kaolin, lignite fly ash, silica, talc, feldspar, mica, glass spheres, wollastonite, aluminum trihydrate, aluminum oxide, fiber glass, and mixtures thereof.
- 14. The kit of Claim 12, wherein the hydrophobic compound is selected from the group consisting of butyric acid, hexanoic acid, octanoic acid, decanoic acid, dodecanoic acid, lauric acid, myristic acid, palmitic acid, oleic acid, linoleic acid, stearic acid, linolenic acid, gum rosin, wood rosin, tall oil rosin, abietic acid, oxidized polyethylene containing carboxylic acid groups, ethylene-acrylic acid copolymers, ethylene-methacrylic acid copolymers, polyolefins grafted with unsaturated carboxylic acids,

- polyolefins grafted with anhydrides, methacrylic acid, maleic acid, fumaric acid, acrylic acid, and salts thereof.
- 15. A method for preparing an aqueous polymeric composition suitable for preparing a spill resistant carpet backing, the method comprising:
 - a. mixing an inorganic filler with an aqueous dispersed polymeric material being
 a polyurethane dispersion; and
 - b. admixing a hydrophobic compound selected from the group consisting of a hydrophobic acid, a salt of a hydrophobic acid, and mixtures thereof.
- 16. The method of Claim 15, wherein the inorganic filler is selected from the group consisting of calcium carbonate, calcium sulfate, kaolin, lignite fly ash, silica, talc, feldspar, mica, glass spheres, wollastonite, aluminum trihydrate, aluminum oxide, fiber glass, and mixtures thereof.
- 17. The method of Claim 15, wherein the hydrophobic compound is selected from the group consisting of butyric acid, hexanoic acid, octanoic acid, decanoic acid, dodecanoic acid, lauric acid, myristic acid, palmitic acid, oleic acid, linoleic acid, stearic acid, linolenic acid, gum rosin, wood rosin, tall oil rosin, abietic acid, oxidized polyethylene containing carboxylic acid groups, ethylene-acrylic acid copolymers, ethylene-methacrylic acid copolymers, polyolefins grafted with unsaturated carboxylic acids, polyolefins grafted with anhydrides, methacrylic acid, maleic acid, fumaric acid, acrylic acid, and salts thereof.
 - 18. A spill resistant carpet backing prepared in accordance with Claim 15.
 - 19. The spill resistant carpet backing of Claim 18, wherein the spill resistant carpet backing is a carpet layer selected from the group consisting of a precoat, a laminate layer, and a foam layer.
- 25 20. A method for preparing an aqueous polymeric composition suitable for preparing a

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spill resistant carpet backing, the method comprising:

- a. treating an inorganic filler with a hydrophobic compound selected from the group consisting of a hydrophobic acid, a salt of a hydrophobic acid, and mixtures thereof; and
- b. mixing the treated inorganic filler with an aqueous dispersed polymeric material being a polyurethane dispersion.
 - 21. The method of Claim 20, wherein the inorganic filler is selected from the group consisting of calcium carbonate, calcium sulfate, kaolin, lignite fly ash, silica, talc, feldspar, mica, glass spheres, wollastonite, aluminum trihydrate, aluminum oxide, fiber glass, and mixtures thereof.
- 22. The method of Claim 20, wherein the hydrophobic compound is selected from the group consisting of butyric acid, hexanoic acid, octanoic acid, decanoic acid, dodecanoic acid, lauric acid, myristic acid, palmitic acid, oleic acid, linoleic acid, stearic acid, linolenic acid, gum rosin, wood rosin, tall oil rosin, abietic acid, oxidized polyethylene containing carboxylic acid groups, ethylene-acrylic acid copolymers, ethylene-methacrylic acid copolymers, polyolefins grafted with unsaturated carboxylic acids, polyolefins grafted with anhydrides, methacrylic acid, maleic acid, fumaric acid, acrylic acid, and salts thereof.
 - 23. A spill resistant carpet backing prepared in accordance with Claim 20.
- 24. The spill resistant carpet backing of Claim 23, wherein the spill resistant carpet backing is a carpet layer selected from the group consisting of a precoat, a laminate layer, and a foam layer.